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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,241	01/22/2004	Hiroshi Wada	248071US0CONT	2022

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ALEXANDRIA, VA 22314

EXAMINER

COONEY, JOHN M

ART UNIT	PAPER NUMBER
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1711

DATE MAILED: 08/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/761,241

Applicant(s)

WADA ET AL.

Examiner

John m. Cooney

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 21 and 24-41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 21 and 24-41 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 10/304,969.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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Applicant's arguments filed 6-13-05 have been fully considered but they are not persuasive.

All prior rejections under 35 USC 112 are withdrawn in light of applicants' amendments and comments and further consideration of the subject matter. It is seen that the ordinary practitioner understands the meaning of the terminology "prepolymer modified polymethylenepolyphenyl polyisocyanate".

The following rejection is set forth as new in light of applicants' amendments:

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 41 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicants' originally disclosed supporting

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disclosure does not provide support for the range of hydroxyl values being greater than 15 mgKOH/g that is currently set forth in applicants' new claim 41.

The following rejections are maintained:

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 21 and 24-41 are rejected under 35 U.S.C. 102(b) as being anticipated by Takeyasu et al.(5,093,380).

Takeyasu et al. discloses preparations of flexible polyurethane foams by mixing and reacting polyols of low-unsaturation and hydroxyl values as claimed which may also contain polymers dispersed within and are prepared using the double metal cyanide catalysts, modified crude MDI as claimed, catalysts, blowing agents, and silicone stabilizers as claimed (see the entire document).

While Takeyasu et al.'s disclosure may be directed towards closed mold operations, the reference is encompassing of combining and reacting the materials

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generally, and one would readily envision mixing and reacting the materials in an open state from the referenced teaching taken as a whole.

Additionally, Takeyasu et al.'s disclosure of prepolymer modified isocyanates is seen to readily envision the polyols as defined by applicants' new claims 40 and 41.

Applicants' arguments have been considered, but rejection is maintained for the reasons set forth above. Rejection is maintained to be proper under 35 USC 102. Examiner maintains the disclosure of the reference to be adequate in its disclosure of the materials claimed to be supportive of a rejection under 35 USC 102. Regarding the molding limitations, in addition to the remarks set forth in the above rejection, it is maintained that although Takeyasu et al. may highlight a closed mold in one embodiment of their disclosure, its full disclosure readily envisions simple mixing in an open area, and such a limitation is not seen to be a distinction over what is fully taught by the teachings of Takeyasu et al.

Additionally, Takeyasu et al. teaches the prepolymer modified polymethylenepolyphenyl polyisocyanate (prepolymer modified crude MDI), and its disclosure of other species of isocyanate does not derogate from its anticipation of applicants' claimed invention. Also, the examples of Takeyasu et al. are not limiting of what Takeyasu et al.'s full teaching discloses.

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Claims 21 and 24-41 are rejected under 35 U.S.C. 102(b) as being anticipated by EP-1,022,300 A1.

EP-1,022,300 A1 discloses preparations of flexible polyurethane foams by mixing and reacting polyols of low-unsaturation and hydroxyl values as claimed which may also contain polymers dispersed within and are prepared using the double metal cyanide catalysts, modified crude MDI as claimed, catalysts, blowing agents, and silicone stabilizers as claimed (see the entire document).

EP-1,022,300 explicitly acknowledges that its procedures may be carried out by a method of spreading a reactive mixture into a mold in an open state (see again paragraph [0083]), and such a disclosure can not be ignored because the reference exemplifies closed molding applications.

Additionally, EP-1,022,300's disclosure of prepolymer modified isocyanates is seen to readily envision the polyols as defined by applicants' new claims 40 and 41.

Applicants' arguments have been considered, but rejection is maintained for the reasons set forth above. Rejection is maintained to be proper under 35 USC 102. Examiner maintains the disclosure of the reference to be adequate in its disclosure of the materials claimed to be supportive of a rejection under 35 USC 102. Regarding the molding limitations, in addition to the remarks set forth in the above rejection, it is maintained that EP-1,022,300's disclosure of open mold techniques is sufficient anticipatory disclosure of this element of applicants' invention.

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Additionally, EP-1,022,300 teaches the prepolymer modified polymethylenepolyphenyl polyisocyanate (prepolymer modified crude MDI), and its disclosure of other species of isocyanate does not derogate from its anticipation of applicants' claimed invention. Also, the examples of EP-1,022,300 are not limiting of what EP-1,022,300's full teaching discloses.

Claims 21 and 24, 27-29, 32-35 and 37-41 are rejected under 35 U.S.C. 102(b) as being anticipated by Ohkubo et al.(5,777,175){equivalent to CN-'408 & EP-'543 – see IDS}.

Ohkubo et al. discloses preparations of flexible polyurethane foams by mixing and reacting polyols having hydroxyl values as claimed which may also contain polymers dispersed within and are prepared using modified isocyanates as claimed, catalysts, blowing agents, and silicone stabilizers as claimed (see the entire document).

Additionally, Ohkubo et al's disclosure of prepolymer modified isocyanates is seen to readily envision the polyols as defined by applicants' new claims 40 and 41.

Applicants' arguments have been considered but rejection is maintained as proper.

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Ohkubo et al.'s disclosure is not seen to be limiting of what KOH values are anticipated by Ohkubo et al. It is maintained that Ohkubo et al's recitations are to a degree that anticipation is evident.

Ohkubo et al. discloses specific stabilizers (called surfactants by Ohkubo et al.) reading on specific stabilizers recited in applicants' examples (note page 22 of applicants' supporting disclosure and column 10 lines 27-37 of Ohkubo et al.)

Additionally, Ohkubo et al. teaches the prepolymer modified polymethylenepolyphenyl polyisocyanate (prepolymer modified crude MDI), and its disclosure of other species of isocyanate does not derogate from its anticipation of applicants' claimed invention. Also, the examples of Ohkubo et al. are not limiting of what EP-1,022,300's full teaching discloses.

The following obviousness-type double patenting rejections are maintained:

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 21 and 24-41 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-41 of U.S. Patent No. 6,734,219. Although the conflicting claims are not identical, they are not patentably distinct from each other because the copending claims disclose preparations of flexible polyurethane foams which are prepared by mixing and reacting polyols, PMDI, catalysts, blowing agents and materials wherein difference in the selection of particular "modified" isocyanates would have been obvious selections taking the teachings and suggestion of the claims and the portions of the supporting disclosure which provide support for the claims of the patent (see column 4 line 58 – column 5 line 10).

Applicants' arguments regarding variations of claim limitations have been considered, but rejection is maintained to be evident as set forth above and teaching and suggestion evident as set forth above.

Claims 21 and 24-41 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 of U.S. Patent No. 6,653,362. Although the conflicting claims are not identical, they are not

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patentably distinct from each other because the copending claims disclose preparations of flexible polyurethane foams which are prepared by mixing and reacting polyols, PMDI, catalysts, blowing agents and materials wherein combinations of materials and respective features vary in a manner which would have been obvious to one having ordinary skill in the art and wherein difference in the selection of particular "modified" isocyanates would have been obvious selections taking the teachings and suggestion of the claims and the portions of the supporting disclosure which provide support for the claims of the patent (see column 9 line 15-35).

Applicants' arguments regarding variations of claim limitations have been considered, but rejection is maintained to be evident as set forth above and teaching and suggestion evident as set forth above.

Applicants' latest arguments regarding the above obviousness-type double patenting rejections have been considered, but rejections are maintained. The claims, alone, and/or in light of the supporting disclosure for definition is adequate in its recitation of the prepolymer modified polymethylenepolyphenyl polyisocyanates as now claimed.

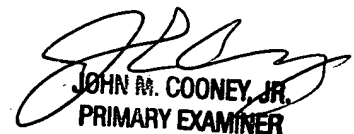
Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Cooney whose telephone number is 571-272-1070. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


JOHN M. COONEY, JR.
PRIMARY EXAMINER
